

**ABSTRACT**

Angiogenesis is a highly regulated process, yet many diseases are driven by unregulated angiogenesis. For example, the growth and metastasis of tumors is dependent on the growth of new blood vessels, which nurture the tumor by providing not only a growth-conducive environment but also a route by which metastatic cells can escape. The present invention provides an angiogenesis inhibiting agent endorepellin, its fragments or derivatives, or analogs thereof, which inhibit angiogenesis. The invention disclosed herein provides a novel therapeutic approach to the treatment of tumors, and other angiogenesis-mediated diseases or conditions, by inhibiting the generation of new blood vessels. The present invention also provides anti-endorepellin, its fragments or derivatives, or analogs thereof, antibodies for the detection, diagnosis and monitoring of angiogenesis-mediated diseases or conditions.

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